Declassified in Part - Sanitized Copy Approved for Release @ 50-Yr2013/04/29 : CIA-RDP82-00047R000400190010-5 HOW 170 CLASSIFICATION CORMIDMONDER CENTRAL INTELLIGENCE AGENCY information report COUNTRY USSR BAR 5# SUBJECT Soviet 57mm and 100mm Antiaircraft Guns 110 PLACE ACQUIRED 50X1 DATE ACQUIRED BY SOURCE 50X1 DATE OF INFORMATION THIS IS UMPHALMATED INFORMATION 50X1 SOURCE 1. The only technical data I can furnish on the 57mm and the 100mm antiaircraft guns is from hearsay. I cannot furnish any information at all about the "Malakhit" radar set. 2. The 57mm antiaircraft gun with automatic sight is a 1948 or 1949 model, in all likelihood, since it was during these years that it was being tested at proving grounds. The gun's characteristics are as follows: Muzzle velocity 1150 meters per second Maximum vertical range 9000 meters Effective range up to 6000 meters Rate of fire 60 rounds per minute This gun may be fired both by direct laying, using the automatic sight, and by the basic method, using radar. The automatic sight is constructed on the principle of the speed and time of movement of a body in space. "Conoids" are used instead of registers of differentials and fractions. 3. The 100mm antiaircraft gun has the following characteristics: Muzzle velocity 950 meters per second Vertical range 14000 meters Horizontal range 19000 meters Rate of fire 25 to 30 rounds per minute Most of the data on the 100mm antiaircraft gun are only approximate, since I am not familiar with the weapon and I have forgotten some data. The system of numbering artillery and infantry weapons is set up by the Technical Department of the Main Artillery Administration of the Ministry of Armed Forces of the USSR. A specific series of numbers is assigned to each lot of an 4. order for a certain type of weapon, corresponding to the factories which have received the order, and the order must go out under these numbers. The numbers of the barrels and the numbers of the guns as a whole do not coincide, since

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